

A HOLLOW CHAMBER COMPOSITE ARTICLE

ABSTRACT OF THE DISCLOSURE

The present invention provides a hollow chamber composite article (14, 14') that includes a hollow section (10, 10'), having a hollow interior (23), which may be composed of one or more parts (1, 1'). The hollow chamber composite article may optionally include a support element (5), which
5 resides within the hollow interior (23) of the hollow section (10'). When composed of more than one part, the parts (1, 1') of the hollow section (10, 10') are fixedly attached to each other in an abutting edge region (26, 26', 35) by means of plastic deformation of the edge regions (2, 2') (e.g., against, through or into one another) due to plastic (4, 8) molded over the
10 abutting edge region (26, 26', 35). The hollow section (10') and the internal support element (5) may be fixedly attached to each other by means of portions (9, 9') of the hollow section (10') being plastically deformed into recesses (e.g., channel 7) of the support element (5) during molding of plastic onto the exterior of the hollow section (10'). Also
15 disclosed is a method of preparing the hollow chamber composite article of the present invention.